

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 9, 2002, 12:19:00 ; Search time 15.96 Seconds
(without alignments)
32.207 Million cell updates/sec

Title: US-09-759-484-3

Perfect score: 22

Sequence: 1 AMVSE 5

Scoring table: BLOSUM62

Searched: 315933 seqs, 102804233 residues

Total number of hits satisfying chosen parameters: 315933

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Pending Patents_A-New:*
1: /cgn2_6/ptodata/2/paa/PCR_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|---------------------|-------------------|
| 1 | 22 | 100.0 | 62 | US-10-155-881-19006 | Sequence 19006, A |
| 2 | 22 | 100.0 | 92 | US-09-620-393B-7044 | Sequence 7044, A |
| 3 | 22 | 100.0 | 110 | US-10-155-881-27071 | Sequence 27071, A |
| 4 | 22 | 100.0 | 219 | US-10-155-881-32065 | Sequence 32065, A |
| 5 | 22 | 100.0 | 287 | US-10-155-881-18996 | Sequence 18996, A |
| 6 | 22 | 100.0 | 346 | US-60-360-039-4933 | Sequence 4933, A |
| 7 | 22 | 100.0 | 368 | US-60-360-039-7691 | Sequence 7691, A |
| 8 | 22 | 100.0 | 496 | US-60-360-039-17032 | Sequence 17032, A |
| 9 | 22 | 100.0 | 768 | US-09-935-625-16110 | Sequence 16110, A |
| 10 | 22 | 100.0 | 950 | US-10-155-881-18997 | Sequence 18997, A |
| 11 | 22 | 100.0 | 1345 | US-09-935-625-15229 | Sequence 15229, A |
| 12 | 22 | 100.0 | 201 | US-09-620-393B-801 | Sequence 801, A |
| 13 | 22 | 100.0 | 213 | US-09-620-393B-800 | Sequence 800, A |
| 14 | 22 | 100.0 | 220 | US-09-620-393B-799 | Sequence 799, A |
| 15 | 22 | 100.0 | 263 | US-09-935-625-8720 | Sequence 8720, A |
| 16 | 22 | 100.0 | 265 | US-10-155-881-28168 | Sequence 28168, A |
| 17 | 22 | 100.0 | 319 | US-60-360-039-13462 | Sequence 13462, A |
| 18 | 22 | 100.0 | 319 | US-60-360-039-18275 | Sequence 18275, A |
| 19 | 22 | 100.0 | 370 | US-10-155-881-28111 | Sequence 28111, A |
| 20 | 22 | 100.0 | 527 | US-09-540-209B-9085 | Sequence 9085, A |
| 21 | 22 | 100.0 | 594 | US-09-935-625-6889 | Sequence 6889, A |
| 22 | 22 | 100.0 | 600 | US-60-360-039-12219 | Sequence 12219, A |
| 23 | 22 | 100.0 | 728 | US-09-935-625-6888 | Sequence 6888, A |
| 24 | 22 | 100.0 | 777 | US-09-935-625-6887 | Sequence 6887, A |
| 25 | 22 | 100.0 | 1080 | US-09-935-625-8365 | Sequence 8365, A |
| 26 | 22 | 100.0 | 1080 | US-09-935-625-25559 | Sequence 25559, A |

| | | | | | | |
|----|----|------|------|---|---------------------|--------------------|
| 27 | 21 | 95.5 | 1092 | 5 | US-09-935-625-8364 | Sequence 8364, A |
| 28 | 21 | 95.5 | 1092 | 5 | US-09-935-625-25558 | Sequence 25558, A |
| 29 | 21 | 95.5 | 1138 | 5 | US-09-935-625-8363 | Sequence 8363, A |
| 30 | 21 | 95.5 | 1138 | 5 | US-09-935-625-25557 | Sequence 25557, A |
| 31 | 19 | 86.4 | 36 | 6 | US-10-120-319-18 | Sequence 18, Appl |
| 32 | 19 | 86.4 | 69 | 5 | US-09-620-393B-7099 | Sequence 7099, A |
| 33 | 19 | 86.4 | 71 | 6 | US-09-620-393B-726 | Sequence 726, A |
| 34 | 19 | 86.4 | 76 | 6 | US-10-155-881-20883 | Sequence 20883, A |
| 35 | 19 | 86.4 | 78 | 6 | US-10-155-881-21011 | Sequence 21011, A |
| 36 | 19 | 86.4 | 84 | 5 | US-09-935-625-32095 | Sequence 32095, A |
| 37 | 19 | 86.4 | 84 | 5 | US-09-935-625-32093 | Sequence 32093, A |
| 38 | 19 | 86.4 | 90 | 1 | PCR-US02-07826-181 | Sequence 181, Appl |
| 39 | 19 | 86.4 | 90 | 5 | US-09-975-502A-6 | Sequence 6, Appl |
| 40 | 19 | 86.4 | 90 | 6 | US-10-097-340-181 | Sequence 181, Appl |
| 41 | 19 | 86.4 | 123 | 6 | US-10-144-860-206 | Sequence 206, Appl |
| 42 | 19 | 86.4 | 129 | 5 | US-09-667-170A-36 | Sequence 36, Appl |
| 43 | 19 | 86.4 | 143 | 5 | US-09-620-393B-3530 | Sequence 3530, A |
| 44 | 19 | 86.4 | 147 | 5 | US-09-620-393B-7153 | Sequence 7153, A |
| 45 | 19 | 86.4 | 153 | 5 | US-09-620-393B-3529 | Sequence 3529, A |

ALIGNMENTS

```

RESULT 1
US-10-155-881-19006
; Sequence 19006, Application US/10155881
; GENERAL INFORMATION:
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Lutfiyya, Linda L.
; APPLICANT: McIninch, James
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE REFERENCE: 38-21(15300)J
; CURRENT APPLICATION NUMBER: US/10/155,881
; CURRENT FILING DATE: 2002-05-22
; NUMBER OF SEQ ID NOS: 37595
; SEQ ID NO 19006
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Glycine max
US-10-155-881-19006

Query Match 100.0%; Score 22; DB 6; Length 62;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
DB 44 AMVSE 48

RESULT 2
US-09-620-393B-7044
; Sequence 7044, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTID
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7044
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature

```

LOCATION: 1..92
OTHER INFORMATION: Xaa is any amino acid
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..92
OTHER INFORMATION: Ceres Seq. ID 1396003
US-09-620-393B-7044

Query Match 100.0%; Score 22; DB 5; Length 92;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 5; Conservative 0; Indels 0; Gaps 0;

OY 1 AMVSE 5
11111
DB 6 AMVSE 10

RESULT 3
US-10-155-881-27071
Sequence 27071, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dolson, Stanton B.
APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jindong
APPLICANT: Lutfiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
SEQ ID NO 27071
LENGTH: 110
TYPE: PRT
ORGANISM: Oryza sativa
US-10-155-881-27071

Query Match 100.0%; Score 22; DB 6; Length 110;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AMVSE 5
11111
DB 55 AMVSE 59

RESULT 4
US-10-155-881-32065
Sequence 32065, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dolson, Stanton B.
APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jindong
APPLICANT: Lutfiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
SEQ ID NO 32065
LENGTH: 219
TYPE: PRT
ORGANISM: Glycine max
US-10-155-881-32065

Query Match 100.0%; Score 22; DB 6; Length 219;
Best Local Similarity 100.0%; Pred. No. 51;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 AMVSE 5
11111
DB 201 AMVSE 205

RESULT 5
US-10-155-881-18996
Sequence 18996, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dolson, Stanton B.
APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jindong
APPLICANT: Lutfiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
SEQ ID NO 18996
LENGTH: 287
TYPE: PRT
ORGANISM: Glycine max
US-10-155-881-18996

Query Match 100.0%; Score 22; DB 6; Length 287;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AMVSE 5
11111
DB 269 AMVSE 273

RESULT 6
US-60-360-039-4933
Sequence 4933, Application US/60360039
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Chen, Xianfeng
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)A
CURRENT APPLICATION NUMBER: US/60/360,039
CURRENT FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 4933
LENGTH: 346
TYPE: PRT
ORGANISM: Burkholderia fungorum
US-60-360-039-4933

Query Match 100.0%; Score 22; DB 7; Length 346;
Best Local Similarity 100.0%; Pred. No. 88;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AMVSE 5
11111
DB 88 AMVSE 92

RESULT 7
US-60-360-039-7691
Sequence 7691, Application US/60360039
GENERAL INFORMATION:

APPLICANT: Cao, Yongwei
APPLICANT: Chen, Xianfeng
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)A
CURRENT APPLICATION NUMBER: US/60/360,039
CURRENT FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 7691
LENGTH: 368
TYPE: PRT
ORGANISM: Burkholderia cepacia
US-60-360-039-7691

Query Match 100.0%; Score 22; DB 7; Length 368;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
DB 90 AMVSE 94

RESULT 8
US-60-360-039-17032
Sequence 17032, Application US/60360039
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Chen, Xianfeng
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)A
CURRENT APPLICATION NUMBER: US/60/360,039
CURRENT FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 17032
LENGTH: 496
TYPE: PRT
ORGANISM: Caulobacter crescentus
US-60-360-039-17032

Query Match 100.0%; Score 22; DB 7; Length 496;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
DB 341 AMVSE 345

RESULT 9
US-09-935-625-16110
Sequence 16110, Application US/09935625
GENERAL INFORMATION:
APPLICANT: N. Alexandrov et al.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAPABLE
FILE REFERENCE: 2750-1481P
CURRENT APPLICATION NUMBER: US/09/935,625
CURRENT FILING DATE: 2001-08-24
NUMBER OF SEQ ID NOS: 33136
SEQ ID NO 16110
LENGTH: 768
TYPE: PRT
ORGANISM: Arabidopsis thaliana

FEATURE:
NAME/KEY: peptide
LOCATION: 1..768
OTHER INFORMATION: Ceres Seq. ID no. 1714504
US-09-935-625-16110

Query Match 100.0%; Score 22; DB 5; Length 768;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
DB 6 AMVSE 10

RESULT 10
US-10-155-881-18997
Sequence 18997, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dotson, Stanton B.
APPLICANT: Kovall, David K.
APPLICANT: Liu, Jingdong
APPLICANT: Lutfiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
SEQ ID NO 18997
LENGTH: 950
TYPE: PRT
ORGANISM: Glycine max
US-10-155-881-18997

Query Match 100.0%; Score 22; DB 6; Length 950;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
DB 932 AMVSE 936

RESULT 11
US-09-935-625-16229
Sequence 16229, Application US/09935625
GENERAL INFORMATION:
APPLICANT: N. Alexandrov et al.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAPA
FILE REFERENCE: 2750-1481P
CURRENT APPLICATION NUMBER: US/09/935,625
CURRENT FILING DATE: 2001-08-24
NUMBER OF SEQ ID NOS: 33136
SEQ ID NO 16229
LENGTH: 1345
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: peptide
LOCATION: 1..1345
OTHER INFORMATION: Ceres Seq. ID no. 1816799
US-09-935-625-16229

Query Match 100.0%; Score 22; DB 5; Length 1345;
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
Db 6 AMVSE 10

RESULT 12
US-09-620-393B-801
; Sequence 801, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 801
; LENGTH: 201
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..201
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..201
; OTHER INFORMATION: Ceres Seq. ID 1377728
US-09-620-393B-801

Query Match 95.5%; Score 21; DB 5; Length 201;
Best Local Similarity 80.0%; Pred. No. 93;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
Db 71 AMVSE 75

RESULT 13
US-09-620-393B-800
; Sequence 800, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 800
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..213
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..213
; OTHER INFORMATION: Ceres Seq. ID 1377727
US-09-620-393B-800

Query Match 95.5%; Score 21; DB 5; Length 213;
Best Local Similarity 80.0%; Pred. No. 1e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5

Db 83 AMVSE 87

RESULT 14
US-09-620-393B-799
; Sequence 799, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nikolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTID
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 799
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..220
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..220
; OTHER INFORMATION: Ceres Seq. ID 1377726
US-09-620-393B-799

Query Match 95.5%; Score 21; DB 5; Length 220;
Best Local Similarity 80.0%; Pred. No. 1e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
Db 90 AMVSE 94

RESULT 15
US-09-935-625-8720
; Sequence 8720, Application US/09935625
; GENERAL INFORMATION:
; APPLICANT: N. ALEXANDROV et al.
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAVA
; FILE REFERENCE: 2750-1481P
; CURRENT APPLICATION NUMBER: US/09/935,625
; CURRENT FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 33136
; SEQ ID NO 8720
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: peptide
; LOCATION: 1..263
; OTHER INFORMATION: Ceres Seq. ID no. 3019814
US-09-935-625-8720

Query Match 95.5%; Score 21; DB 5; Length 263;
Best Local Similarity 80.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMVSE 5
|||||
Db 71 AMVSE 75

Search completed: July 9, 2002, 12:22:29

Tue Jul 9 13:40:24 2002

us-09-759-484-3.rapn

Page 5

Job time: 209 sec

•
•
•
•